

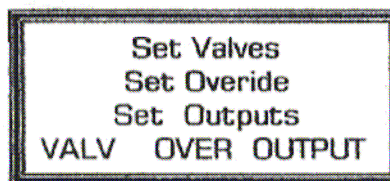
ValveMaster 4-20 mA Output Option Instructions

The ValveMaster can be supplied with an optional 4-20 mA output card that provides the ability to follow an associated input with a 4-20 mA output. This output can be used as an input to a PLC, etc.

Note: The ValveMaster must be configured for use of the 4-20 ma output. If it has not been previously configured (normally indicated by having only 2 cards in the door), please contact UMC at 915-686-1995 for configuration information.

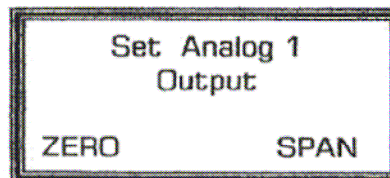
The 4-20 ma option can be accessed from the below display (see page 5 of the ValveMaster Installation and Calibration Instructions).

Screen 12:



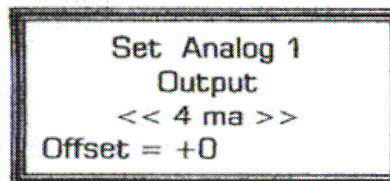
Select "OUTPUT", and the "Set Analog" screen will be displayed:

Screen 25:



Select "ZERO" and the "4 ma" screen will be displayed:

Screen 26:



Note: The Analog 1 Output follows the Analog 1 Input.

For this example, we will assume zero psig. Open the transmitter to atmospheric pressure.

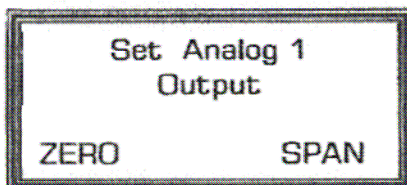
Note: To ensure an accurate output setting, a DVM set on the mA scale should be in series with the (+) leg going to the PLC or other end device.

Check to be sure that the output is at 4 mA. If there is a slight variance, use the “Up” and “Down” membrane keys to adjust the offset until the 4 ma output is correct.

Note: While there is some adjustment available, it is limited in span.

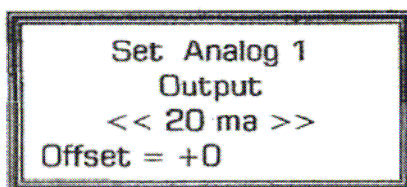
After the offset is adjusted (if required), depress the “Enter” key and then the “Exit” key. The screen will return to screen:

Screen 25:



Select “SPAN” and the “20 ma” screen will be displayed:

Screen 26:



Note: As noted above, the output follows the input

Apply the same pressure the unit was calibrated with and check to be sure that the output is at 20 mA. If there is a slight variance, use the “Up” and “Down” membrane keys to adjust the offset until the 20 ma output is correct.

After the offset is adjusted (if required), depress the “Enter” key and then the “Exit” key. The screen will return to **Screen 25**.

Analog output 1 is calibrated.

Depress the “Exit” until screen 12 reappears.

Then return to page 5 of the main instructions.

Note: The same procedure is used to calibrate Analog 2 Output using Analog 2 Input.